

WEST Search History

DATE: Friday, June 20, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L1	cao-linriu\$.in. or elzinga-jeoffrey\$.in.	3	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: WO 2061067 A1

L1: Entry 1 of 3

File: EPAB

Aug 8, 2002

PUB-NO: WO002061067A1

DOCUMENT-IDENTIFIER: WO 2061067 A1

TITLE: A METHOD OF PREPARING CROSS-LINKED ENZYME AGGREGATES

PUBN-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME

COUNTRY

LOPEZ, SERRANO PALOMA

NL

CAO, LINQIU

NL

VAN, RANTWIJK FREDERIK

NL

SHELDON, ROGER ARTHUR

NL

INT-CL (IPC): C12 N 9/96; C12 N 9/20

EUR-CL (EPC): C12N009/96; C12N009/20, C12N011/02 , C12P007/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 2. Document ID: EP 1088887 A1

L1: Entry 2 of 3

File: EPAB

Apr 4, 2001

PUB-NO: EP001088887A1

DOCUMENT-IDENTIFIER: EP 1088887 A1

TITLE: Crosslinked enzyme aggregates

PUBN-DATE: April 4, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

CAO, LINQIU

NL

LANGEN, LUKAS MICHAEL

NL

JANSSEN, MICHIEL HUBERTUS ARNOL

NL

SHELDON, ROGER ARTHUR

NL

INT-CL (IPC): C12 N 9/96; C12 N 9/84

EUR-CL (EPC): C12N009/84; C12N009/96

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 3. Document ID: DE 19753789 A1

L1: Entry 3 of 3

File: EPAB

Jun 17, 1999

PUB-NO: DE019753789A1

DOCUMENT-IDENTIFIER: DE 19753789 A1

TITLE: Enzyme-catalysed esterification of polyol compounds to give e.g. emulsifiers for pharmaceuticals or foods

PUBN-DATE: June 17, 1999

INVENTOR-INFORMATION:

NAME	COUNTRY
OTTO, RALF	DE
SYLDATK, CHRISTOPH DR	DE
CAO, LINQIU	NL
BORNSCHEUER, UWE DR	DE
SCHMID, ROLF D DR	DE

INT-CL (IPC): C12 P 7/62; C12 P 19/00; C12 P 17/04; C07 H 13/04; C07 H 15/04; C07 D 307/62; C07 C 69/732; C07 C 69/612; C07 C 69/614
EUR-CL (EPC): C07D307/62; C07H015/203, C12P007/62 , C12P019/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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Terms	Documents
cao-liniqu\$.in. or elzinga-jeoffrey\$.in.	3

Display Format:

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WEST Search History

DATE: Friday, June 20, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L1	enzyme or lipase or esterase or protease or nitrilase or oxynitrilase or penicillin amidase or penicillin acylase or amino acylase	249632	L1
L2	diaminoalkane or ehtylene diamine or diamine or amine or triamine or aminoethylether or spermidin or diamino	481108	L2
L3	dialdehyde or glutaraldehyde or glyoxal or pentadione or hexadione	36940	L3
L4	L1 with (aggregate or aggregation or agglomeration or agglomerate)	2012	L4
L5	L4 same (precipitate or precipitation or precipitating or precipitated)	106	L5
L6	L5 same (crosslinking agent or crosslinked or crosslinking or cross linking or cross linked)	11	L6
L7	(crosslinking agent or crosslinked or crosslinking or cross linking or cross linked) same l3	9400	L7
L8	L7 same l2	814	L8
L9	L8 and l6	0	L9
L10	l8 same l4	0	L10
L11	L8 same l1	93	L11

END OF SEARCH HISTORY

WEST

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Search Results - Record(s) 1 through 11 of 11 returned.☐ 1. Document ID: US 20010006804 A1

L6: Entry 1 of 11

File: PGPB

Jul 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010006804
PGPUB-FILING-TYPE: new-utility
DOCUMENT-IDENTIFIER: US 20010006804 A1

TITLE: Method for preparing bioreactor

PUBLICATION-DATE: July 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Asai, Katsushi	Toyonaka-shi		JP	

US-CL-CURRENT: 435/177; 435/289.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5868868 A

L6: Entry 2 of 11

File: USPT

Feb 9, 1999

US-PAT-NO: 5868868
DOCUMENT-IDENTIFIER: US 5868868 A

TITLE: Peg-modified proteases and methods of use in contact lens cleaning

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Park; Joonsep	Arlington	TX		
Quintana; Ronald P.	Arlington	TX		
Hong; Bor-shyue	Arlington	TX		
Asgharian; Bahram	Arlington	TX		

US-CL-CURRENT: 134/42; 435/188, 435/219, 435/220, 435/221, 435/222, 435/223, 435/224, 435/228, 510/113, 510/114, 510/392, 510/530

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US RE34394 E

L6: Entry 3 of 11

File: USPT

Sep 28, 1993

US-PAT-NO: RE34394

DOCUMENT-IDENTIFIER: US RE34394 E

TITLE: Method and composition for double receptor, specific binding assays

DATE-ISSUED: September 28, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bunting; James R.	Washington	DC		

US-CL-CURRENT: 436/500; 435/5, 435/7.1, 435/7.92, 435/7.94, 436/501, 436/503,
436/505, 436/518, 436/531, 436/544, 436/545, 436/546, 436/800, 436/810, 436/815,
436/820, 436/822, 436/823, 436/824

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 4. Document ID: US 5208166 A

L6: Entry 4 of 11

File: USPT

May 4, 1993

US-PAT-NO: 5208166

DOCUMENT-IDENTIFIER: US 5208166 A

TITLE: Reactive chitosan coated articles and test kit for immunoassay

DATE-ISSUED: May 4, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Saunders; Mary S.	Monticello	FL	32344	
Pegg; Randall K.	Amelia Island	FL	32034	

US-CL-CURRENT: 436/518; 422/57, 422/61, 427/2.13, 427/337, 427/338, 427/414,
435/7.8, 436/528, 436/529, 436/808, 436/809, 514/55, 536/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 4929556 A

L6: Entry 5 of 11

File: USPT

May 29, 1990

US-PAT-NO: 4929556

DOCUMENT-IDENTIFIER: US 4929556 A

TITLE: Enzyme immobilization with polysulfonium salts

DATE-ISSUED: May 29, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cheng; Roberta C.	Midland	MI		
Wessling; Ritchie A.	Midland	MI		
Schmidt; Donald L.	Midland	MI		

US-CL-CURRENT: 435/180; 435/177, 435/181, 435/182, 435/234, 435/94

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 6. Document ID: US 4459312 A

L6: Entry 6 of 11

File: USPT

Jul 10, 1984

US-PAT-NO: 4459312

DOCUMENT-IDENTIFIER: US 4459312 A

**** See image for Certificate of Correction ****

TITLE: Enzymes bonded to living yeast cells

DATE-ISSUED: July 10, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartmeier; Winfried	Ingelheim			DE

US-CL-CURRENT: 426/13; 426/12, 426/15, 426/16, 426/62, 435/174, 435/175, 435/181,
435/255-2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 7. Document ID: US 4271140 A

L6: Entry 7 of 11

File: USPT

Jun 2, 1981

US-PAT-NO: 4271140

DOCUMENT-IDENTIFIER: US 4271140 A

TITLE: Method and composition for double receptor, specific binding assays

DATE-ISSUED: June 2, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bunting; James R.	Washington	DC		

US-CL-CURRENT: 436/500; 436/503, 436/505, 436/531, 436/820

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 8. Document ID: WO 2061067 A1

L6: Entry 8 of 11

File: EPAB

Aug 8, 2002

PUB-NO: WO002061067A1

DOCUMENT-IDENTIFIER: WO 2061067 A1

TITLE: A METHOD OF PREPARING CROSS-LINKED ENZYME AGGREGATES

PUBN-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	COUNTRY
LOPEZ, SERRANO PALOMA	NL
CAO, LINQIU	NL
VAN, RANTWIJK FREDERIK	NL
SHELDON, ROGER ARTHUR	NL

INT-CL (IPC): C12 N 9/96; C12 N 9/20
EUR-CL (EPC): C12N009/96; C12N009/20, C12N011/02 , C12P007/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 9. Document ID: EP 1088887 A1

L6: Entry 9 of 11

File: EPAB

Apr 4, 2001

PUB-NO: EP001088887A1
DOCUMENT-IDENTIFIER: EP 1088887 A1
TITLE: Crosslinked enzyme aggregates

PUBN-DATE: April 4, 2001

INVENTOR-INFORMATION:

NAME	COUNTRY
CAO, LINQIU	NL
LANGEN, LUKAS MICHAEL	NL
JANSSEN, MICHIEL HUBERTUS ARNOL	NL
SHELDON, ROGER ARTHUR	NL

INT-CL (IPC): C12 N 9/96; C12 N 9/84
EUR-CL (EPC): C12N009/84; C12N009/96

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 10. Document ID: WO 200261067 A1 NL 1017258 C2

L6: Entry 10 of 11

File: DWPI

Aug 8, 2002

DERWENT-ACC-NO: 2002-691548
DERWENT-WEEK: 200274
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TITLE: Preparation of cross-linked enzyme aggregates involves performing precipitating step in the presence of crown ether or surfactant, and/or performing washing step with a second liquid differing in organic composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 11. Document ID: EP 1088887 A1

L6: Entry 11 of 11

File: DWPI

Apr 4, 2001

DERWENT-ACC-NO: 2001-302010
DERWENT-WEEK: 200132
COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Crosslinked enzyme aggregate for increasing the stability of the enzyme at sixty degrees centigrade comprises the addition of a precipitating agent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KM/C	Draw Desc	Image
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Terms	Documents
L5 same (crosslinking agent or crosslinked or crosslinking or cross linking or cross linked)	11

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DATE: Friday, June 20, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L1	enzyme or lipase or esterase or protease or nitrilase or oxynitrilase or penicillin amidase or penicillin acylase or amino acylase	249632	L1
L2	diaminoalkane or ethylene diamine or diamine or amine or triamine or aminoethylether or spermidin or diamino	481108	L2
L3	dialdehyde or glutaraldehyde or glyoxal or pentadione or hexadione	36940	L3
L4	L1 with (aggregate or aggregation or agglomeration or agglomerate)	2012	L4
L5	L4 same (precipitate or precipitation or precipitating or precipitated)	106	L5
L6	L5 same (crosslinking agent or crosslinked or crosslinking or cross linking or cross linked)	11	L6
L7	(crosslinking agent or crosslinked or crosslinking or cross linking or cross linked) same l3	9400	L7
L8	L7 same l2	814	L8
L9	L8 and l6	0	L9
L10	l8 same l4	0	L10
L11	L8 same l1	93	L11
L12	L6 and l2	4	L12
L13	L12 and l3	2	L13

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 2 of 2 returned.**☐ 1. Document ID: US 5208166 A

L13: Entry 1 of 2

File: USPT

May 4, 1993

US-PAT-NO: 5208166

DOCUMENT-IDENTIFIER: US 5208166 A

TITLE: Reactive chitosan coated articles and test kit for immunoassay

DATE-ISSUED: May 4, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Saunders; Mary S.	Monticello	FL	32344	
Pegg; Randall K.	Amelia Island	FL	32034	

US-CL-CURRENT: 436/518; 422/57, 422/61, 427/2.13, 427/337, 427/338, 427/414,
435/7.8, 436/528, 436/529, 436/808, 436/809 , 514/55, 536/20[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)☐ 2. Document ID: US 4929556 A

L13: Entry 2 of 2

File: USPT

May 29, 1990

US-PAT-NO: 4929556

DOCUMENT-IDENTIFIER: US 4929556 A

TITLE: Enzyme immobilization with polysulfonium salts

DATE-ISSUED: May 29, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cheng; Roberta C.	Midland	MI		
Wessling; Ritchie A.	Midland	MI		
Schmidt; Donald L.	Midland	MI		

US-CL-CURRENT: 435/180; 435/177, 435/181, 435/182, 435/234, 435/94[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
L12 and 13	2

Display Format:

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 4 of 4 returned.**☐ 1. Document ID: US 5868868 A

L12: Entry 1 of 4

File: USPT

Feb 9, 1999

US-PAT-NO: 5868868

DOCUMENT-IDENTIFIER: US 5868868 A

TITLE: Peg-modified proteases and methods of use in contact lens cleaning

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Park; Joonsup	Arlington	TX		
Quintana; Ronald P.	Arlington	TX		
Hong; Bor-shyue	Arlington	TX		
Asgharian; Bahram	Arlington	TX		

US-CL-CURRENT: 134/42; 435/188, 435/219, 435/220, 435/221, 435/222, 435/223,
435/224, 435/228, 510/113, 510/114, 510/392 , 510/530[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[Full](#) | [Draw Desc](#) | [Image](#)☐ 2. Document ID: US 5208166 A

L12: Entry 2 of 4

File: USPT

May 4, 1993

US-PAT-NO: 5208166

DOCUMENT-IDENTIFIER: US 5208166 A

TITLE: Reactive chitosan coated articles and test kit for immunoassay

DATE-ISSUED: May 4, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Saunders; Mary S.	Monticello	FL	32344	
Pegg; Randall K.	Amelia Island	FL	32034	

US-CL-CURRENT: 436/518; 422/57, 422/61, 427/2.13, 427/337, 427/338, 427/414,
435/7.8, 436/528, 436/529, 436/808, 436/809 , 514/55, 536/20[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[Full](#) | [Draw Desc](#) | [Image](#)☐ 3. Document ID: US 4929556 A

L12: Entry 3 of 4

File: USPT

May 29, 1990

US-PAT-NO: 4929556
DOCUMENT-IDENTIFIER: US 4929556 A

TITLE: Enzyme immobilization with polysulfonium salts

DATE-ISSUED: May 29, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cheng; Roberta C.	Midland	MI		
Wessling; Ritchie A.	Midland	MI		
Schmidt; Donald L.	Midland	MI		

US-CL-CURRENT: 435/180; 435/177, 435/181, 435/182, 435/234, 435/94

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 4459312 A

L12: Entry 4 of 4

File: USPT

Jul 10, 1984

US-PAT-NO: 4459312
DOCUMENT-IDENTIFIER: US 4459312 A
**** See image for Certificate of Correction ****

TITLE: Enzymes bonded to living yeast cells

DATE-ISSUED: July 10, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartmeier; Winfried	Ingelheim			DE

US-CL-CURRENT: 426/13; 426/12, 426/15, 426/16, 426/62, 435/174, 435/175, 435/181,
435/255.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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Terms	Documents
L6 and 12	4

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